=> fil reg
FILE 'REGISTRY' ENTERED AT 11:41:14 ON 23, FEB 2006
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 21 FEB 2006 HIGHEST RN 874882-62-9 DICTIONARY FILE UPDATES: 21 FEB 2006 HIGHEST RN 874882-62-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

The CA roles and document type information have been removed from the the IDE default display format and the ED field has been added, effective March 20, 2005. A new display format, IDERL, is now available and contains the CA role and document type information.

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> d sta que 135

L25 SCR 1993 OR 2009 OR 2016 OR 2021 OR 2026 OR 1838 OR 2043 OR 2039 OR 2050 OR 2049 OR 2052 OR 2054

R 2039 OR 2050 OR 2049 OR 2052 OF L30 STR

VAR G1=NH2/26/28/41/40/42 REP G2=(0-1) O

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NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 31
STEREO ATTRIBUTES: NONE
            397 SEA FILE=REGISTRY CSS FUL L30 NOT L25
L34
            11 SEA FILE=REGISTRY ABB=ON PLU=ON L32 AND NC>=2
L35
            386 SEA FILE=REGISTRY ABB=ON PLU=ON L32 NOT L34
=> d his
     (FILE 'HOME' ENTERED AT 10:53:41 ON 23 FEB 2006)
                SET COST OFF
     FILE 'HCAPLUS' ENTERED AT 10:53:52 ON 23 FEB 2006
L1
              1 S US20040068006/PN OR (US2003-679040# OR WO2002-US10539 OR US20
                E FINK M/AU
L2
            300 S E3, E9, E49, E50
                E WARREN H/AU
L3
             93 S E3,E16-E18
L4
              4 S E68, E69
                E CRIT/PA, CS
                E CRI T/PA, CS
                E CRIT T/PA, CS
                E CRITIC T/PA,CS
               E CRITICAL T/PA,CS
              7 S E5-E8
L5
                E CARBOXYLIC ACID/CT
                E CARBOXYLIC ACIDS/CT
L6
            11 S E3 (L) 2 KETO
T.7
            43 S (CARBOXYLIC(L)ACID#)/CW (L) 2(L)KETO
1.8
            43 S CARBOXYLIC ACID?/CT (L) 2(L)KETO
1.9
            43 S L6-L8
             2 S 2 KETOALKANOIC ACID
L10
             0 S 2 KETO ALKANOIC ACID
L11
L12
             0 S 2 KETO ALKANOATE
L13
             0 S 2 KETOALKANOATE
             44 S L9, L10
L14
L15
              2 S L1-L5 AND L14
                SEL RN
     FILE 'REGISTRY' ENTERED AT 10:59:26 ON 23 FEB 2006
L16
             24 S E1-E24
L17
             1 S L16 AND C3H5NO2
L18
             19 S L16 AND 3/ELC.SUB
L19
             1 S L18 AND C3H6O3
L20
             18 S L18 NOT L19
L21
             19 S L17, L20
L22
              5 S L16 NOT L21
L23
                S,TR
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SCR 1993 OR 2009 OR 2016 OR 2021 OR 2026 OR 1838 OR 2043 OR 203

OS L23 CSS

STR L23

24 S L23 NOT L25 CSS SAM

L24 L25

L26

L27

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L28
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L29
            390 S L27 NOT L25 CSS FUL
                SAV L29 JONES679/A
L30
                STR L27
L31
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L32
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L33
              6 S L21 NOT L32
L34
             11 S L32 AND NC>=2
L35
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L36
           3111 S L35
                E ACUTE RENAL FAILURE/CT
                E E3+ALL
L37
           1406 S E2
L38
           5876 S ACUTE(L) (KIDNEY OR RENAL OR NEPHR?) (L) FAIL?
L39
              1 S L14 AND L37, L38
L40
              6 S L36 AND L37, L38
L41
             6 S L39, L40
             25 S L1-L5 AND L36
L42
             1 S L42 AND L41
L43
L44
              6 S L41, L43
L45
            396 S L33/D
             2 S L45 AND L37, L38
L46
L47
              5 S L1-L5 AND L45
             7 S L44,L46
L48
L49
             4 S L47 NOT L48
L50
             11 S L48, L49
                E KIDNEY/CT
          16349 S E39-E41
L51
L52
         181892 S E3-E139
L53
          28046 S E190
L54
          36799 S E191-E216
L55
          15163 S E217-E264
L56
          17394 S E265-E293
          23459 S E294
L57
L58
          44627 S E295-E307, E310-E312
L59
           2909 S E313-E316
                E E3+ALL
L60
         182004 S E5+OLD, NT
                E E11+ALL
L61
          69413 S E10+OLD, NT
L62
             1 S L14 AND L51-L61
L63
             26 S L36 AND L51-L61
L64
             31 S L50, L62, L63
L65
              7 S L45 AND L51-L61
L66
             36 S L64, L65
L67
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L68
             16 S L66 NOT L67
L69
              7 S L67 AND (ACUTE OR CHRONIC)
                SEL AN 1 6 7
              3 S L69 AND E1-E6
L70
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FILE 'REGISTRY' ENTERED AT 11:41:14 ON 23 FEB 2006

=> fil hcaplus '.....',
FILE 'HCAPLUS' ENTERED AT 11:41:25 ON 23 FEB 2006
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FILE COVERS 1907 - 23 Feb 2006 VOL 144 ISS 9 FILE LAST UPDATED: 22 Feb 2006 (20060222/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d 170 all hitstr tot

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L70 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN
     2004:293397 HCAPLUS
ΑN
DN
     140:281392
ED
     Entered STN: 09 Apr 2004
TΤ
     Method for preventing acute renal failure
IN
     Fink, Mitchell P.; Warren, Howland Shaw
PA
     Critical Therapeutics, Inc., USA
SO
     U.S. Pat. Appl. Publ., 9 pp., Cont.-in-part of Appl. No. PCT/US02/10539.
     CODEN: USXXCO
DΤ
     Patent
LA
     English
     ICM A61K0031-22
IC
     ICS A61K0031-16
INCL 514546000; 514625000
     1-8 (Pharmacology)
     Section cross-reference(s): 63
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                          KIND
                                 DATE
                                               APPLICATION NO.
                                                                       DATE
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                                  20040408
                                               us 2003/679040
                           A1
                                                                       20031003 <--
                                              CA 2002 2441542
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                           AA
                                  20021017
                                                                       20020403 <--
     WO 2002081020
                           A2
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                                                                       20020403 <--
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             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
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             KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB,
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                                 20040107
                                              EP 2002-723759
                                                                       20020403 <--
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PRAI US 2001-281363P
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                 CLASS PATENT FAMILY CLASSIFICATION CODES
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                        A61K0031-16
                 INCL
                        514546000; 514625000
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                        A61K0031-22 [ICM, 7]; A61K0031-16 [ICS, 7]
                 IPCR
                        A61K0031-16 [I,A]; A61K0031-16 [I,C]; A61K0031-185
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                        A61K0031-22 [I,A]
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                 FTERM 4C206/CB12; 4C206/DA02; 4C206/DA03; 4C206/DB03;
                        4C206/MA04; 4C206/MA37; 4C206/MA44; 4C206/MA55;
                        4C206/MA72; 4C206/MA75; 4C206/NA07; 4C206/NA14;
                        4C206/ZA81
                                                                             <--
OS
    MARPAT 140:281392
AB
    Disclosed is a method of treating acute renal
     failure in a subject. The method comprises the step of
     administering to the subject an effective amount of a composition comprising a
     2-ketoalkanoic acid, a pharmaceutically
     acceptable salt of a 2-ketoalkanoic acid, an
     ester of a 2-ketoalkanoic acid, or an amide
     of a 2-ketoalkanoic acid (Markush structures
     are presented). Preferably, the composition comprises an enolization agent and
     an alkyl, aralkyl, alkoxyalkyl or carboxyalkyl ester of a 2-
     ketoalkanoic acid dissolved in a pharmaceutically
     acceptable vehicle.
ST
     enolization keto alkanoic acid acute renal
     failure
TΥ
     Carboxylic acids, biological studies
     RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (2-keto; method for preventing acute
        renal failure)
IT
     Enolization
        (agents; method for preventing acute renal
        failure)
IT
     Carboxylic acids, biological studies
     RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (alkyl esters, 2-keto; method for preventing
        acute renal failure)
IT
     Imaging
        (contrast; method for preventing acute renal
        failure)
ΙT
     Kidney, disease
        (failure, acute; method for preventing
        acute renal failure)
IT
     Heart, disease
     Liver, disease
        (failure; method for preventing acute renal
```

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failure)
IT
     Shock (circulatory collapse)
        (hemorrhagic; method for preventing acute renal
        failure)
IT
     Diabetes mellitus
     Drug delivery systems
     Hypotension
       Kidney
       Nephrotoxicity
     Sepsis
     Surgery
        (method for preventing acute renal failure
IT
     Esters, biological studies
     RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (ribosyl; method for preventing acute renal
        failure)
IT
     96-26-4D, Dihydroxyacetone, ester 127-17-3D, esters
     600-18-0D, alkyl, aralkyl, alkoxyalkyl, or carboxyalkyl ester of
     617-35-6, Ethyl pyruvate 631-66-3, Pyruvamide
     759-05-7D, alkyl, aralkyl, alkoxyalkyl, or carboxyalkyl ester of
     816-66-0D, alkyl, aralkyl, alkoxyalkyl, or carboxyalkyl ester of
     1821-02-9D, 2-Ketopentanoic acid, alkyl, aralkyl, alkoxyalkyl, or
     carboxyalkyl ester of 2492-75-3D, 2-Oxo-Hexanoic acid, alkyl,
     aralkyl, alkoxyalkyl, or carboxyalkyl ester of
     RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (method for preventing acute renal failure
IT
    127-17-3D, esters 600-18-0D, alkyl, aralkyl,
     alkoxyalkyl, or carboxyalkyl ester of 617-35-6, Ethyl pyruvate
     631-66-3, Pyruvamide 759-05-7D, alkyl, aralkyl,
     alkoxyalkyl, or carboxyalkyl ester of 816-66-0D, alkyl, aralkyl,
     alkoxyalkyl, or carboxyalkyl ester of 1821-02-9D,
     2-Ketopentanoic acid, alkyl, aralkyl, alkoxyalkyl, or carboxyalkyl ester
    of 2492-75-3D, 2-Oxo-Hexanoic acid, alkyl, aralkyl, alkoxyalkyl,
     or carboxyalkyl ester of
     RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (method for preventing acute renal failure
RN
     127-17-3 HCAPLUS
CN
     Propanoic acid, 2-oxo- (9CI) (CA INDEX NAME)
   0
Me-C-CO2H
RN
     600-18-0 HCAPLUS
     Butanoic acid, 2-oxo- (9CI) (CA INDEX NAME)
Et-C-CO2H
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RN 617-35-6 HCAPLUS

CN Propanoic acid, 2-oxo-, ethyl ester (9CI) (CA INDEX NAME)

RN 631-66-3 HCAPLUS

CN Propanamide, 2-oxo- (9CI) (CA INDEX NAME)

RN 759-05-7 HCAPLUS

CN Butanoic acid, 3-methyl-2-oxo- (9CI) (CA INDEX NAME)

RN 816-66-0 HCAPLUS

CN Pentanoic acid, 4-methyl-2-oxo- (9CI) (CA INDEX NAME)

RN 1821-02-9 HCAPLUS

CN Pentanoic acid, 2-oxo- (9CI) (CA INDEX NAME)

RN 2492-75-3 HCAPLUS

CN Hexanoic acid, 2-oxo- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

L70 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN '

AN 1992:440446 'HCAPLUS

DN 117:40446

ED Entered STN: 08 Aug 1992

TI Pyruvate solutions to counteract acute renal

```
failure
ΙN
    Wath Karl A.
PA
    University of Minnesota, USA
SO
    PCT Int. Appl., 17 pp.
    CODEN: PIXXD2
DT
    Patent
LA
    English
IC
    ICM A01N0037-00
CC
    1-8 (Pharmacology)
    Section cross-reference(s): 63
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                                                               DATE
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                              19920402 WO 1991-US6471
                                                        19910909 <--
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        RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN,
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                                          AU 1991-85394
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                      [I,C]; A61K0031-19 [I,A]
                NCL
                       514/557.000; 514/675.000
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AB
    Pyruvate salts are used to treat acute kidney
    failure. Sodium pyruvate prevented the rise in urinary protein
    excretory rates induced by H2O2 in rats. Systemic administration of
    pyruvate prior to and during the induction of ischemia-reperfusion injury
    of the kidney leads to improvement of renal function
    as measured by glomerular filtration rate and renal blood flow.
ST
    pyruvate kidney failure
IT
    Kidney, disease
        (failure, treatment of, with pyruvate salts)
    113-24-6, Sodium pyruvate 127-17-3D, Pyruvic acid, salts
IT
    RL: BIOL (Biological study)
        (kidney failure treatment with)
IT
    127-17-3D, Pyruvic acid, salts
    RL: BIOL (Biological study)
        (kidney failure treatment with)
RN
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    Propanoic acid, 2-oxo- (9CI) (CA INDEX NAME)
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  -с-со2н
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L70 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN

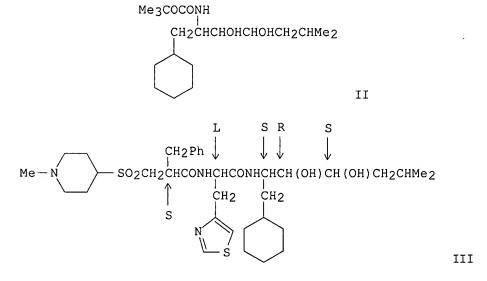
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AN
      1992:84190 HCAPLUS
DN
      116:84190
ED
     Entered STN: 06 Mar 1992
TΙ
      Preparation of peptide derivatives as renin inhibitors for treating renal
ΙN
      Kleinert, Hollis
PΑ
      Abbott Laboratories, USA
SO
      Eur. Pat. Appl., 46 pp.
      CODEN: EPXXDW
υщ
      Patent
LA
      English
IC
      ICM A61K0037-02
      ICS A61K0037-64; C07K0005-00; C07K0005-06; A61K0031-445; A61K0031-535
      34-3 (Amino Acids, Peptides, and Proteins)
CC
      Section cross-reference(s): 1
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                                              APPLICATION NO. DATE
      EP 440102 A1 19910807 EP 1991-100958 19910125 <--
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IL 96942 A1 19950124 IL 1991-96942 19910114 <--
AU 9169878 A1 19910801 AU 1991-69878 19910122 <--
AU 632895 B2 19930114

CA 2035163 AA 19910801 CA 1991-2035163 19910129 <--
JP 06107562 A2 19940419 JP 1991-211684 19910131 <--
US 5178877 A 19930112 US 1991-737093 19910729 <--
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US 5276031 A 19940104 CC US 1990-472937 A 19900131 C-- US 1991-632595 A 19910104 C-- US 1991-683663 A2 19910415 C-- US 1991-737093 A 19910729 C-- US 1991-737093 A 19920214 C--
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      WO 1992-US5923
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 PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES
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                        C07K0005-00 [I,C]; C07K0005-065 [I,A]
                        424/456.000; 424/455.000; 514/019.000; 514/962.000;
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                        A61K0009-48 [ICM, 5]
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                 IPCR
                        A61K0009-48 [I,A]; A61K0009-48 [I,C]; A61K0031-496
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                        A61K0031-5377 [I,A]
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 AU 9223924
                 IPCI
                        A61K0009-48 [ICM, 5]
                                                                              <--
 US 5276031
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                        [I,C]; C07D0211-46 [I,A]; C07D0211-54 [I,A];
                        C07K0005-00 [I,C]; C07K0005-065 [I,A]
                 NCL
                        514/237.200; 514/235.500
                                                                              <--
OS
     MARPAT 116:84190
GΙ
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AR1CHWUCHR3CONHCHR6CR4R5CR7R8R9 I



AB Use of a renin-inhibiting peptide for manufacturing a medicament for preventing,

treating, inhibitory, or reversing renal dysfunction is described (no data). Preferred peptides I [A = H, C1-7 alkyl, aralkyl, etc.; W = CO, CHOH; U = CH2; NR2 and W = CHOH when U = CH2; R1 = C1-7 alkyl, cycloalkylmethyl, (substituted) benzyl, naphthylmethyl, etc.; R2 = H, C1-7 alkyl; R3 = C1-7 alkyl, C1-7 alkenyl, CH2Ph, heterocyclylmethyl, etc.; R4, R9 = OH, NH2; R5 = vinyl, CHO, HOCH2, H; R6 = C1-7 alkyl,

```
cycloalkylmethyl, CH2Ph; R7 = H, C1-7 alkyl, vinyl, aralkyl, etc.; R8 = H,
    C1-7 alkyl] were prepared Thus AcNHC(CO2Et)2CH2COCH2Br (preparation given) was
    cyclocondensed with thioformamide and the resulting product was converted
     in 4 steps to N-tert-butoxycarbonyl-3-(4-thiazolyl)-L-alanine. This was
    coupled with (2S,3R,4S)-II in the presence of HOBt and EtN:C:N(CH2)3NMe2
     and the resulting product was deprotected and then coupled with
     (2S)-2-benzyl-3-(1-methylpiperidin-4-ylsulfonyl)propionic acid (preparation
    given) to give renin inhibitor III.
ST
    renal dysfunction treatment peptide prepn; renin inhibitor
    peptide prepn; chronic renal failure
    treatment peptide; acute renal failure
    treatment peptide
ΙT
    Kidney, disease
        (failure, acute, treatment of, peptides for)
ΙT
    Kidney, disease
        (failure, chronic, treatment of, peptides for)
IT
     9015-94-5, Renin, biological studies
    RL: USES (Uses)
        (inhibitors, peptides as)
ΙT
    17193-39-4P
                   18020-59-2P
                                 27527-05-5P
                                               42294-32-6P
                                                            103547-97-3P
    112190-42-8P
                   114457-57-7P
                                   119434-75-2P
                                                  122226-01-1P
                                                                 122292-90-4P
    122292-91-5P
                    123381-13-5P
                                   129921-91-1P
                                                  129921-93-3P
                                                                 130316-86-8P
    130316-92-6P
                                   131116-54-6P
                    130336-10-6P
                                                  131349-19-4P
                                                                 134038-94-1P
    134038-95-2P
                    135865-22-4P · 135865-23-5P
                                                  135934-36-0P
                                                                 135967-46-3P
    135967-48-5P
                    135967-49-6P
                                   135967~50~9P
                                                  136010-39-4P
                                                                 136010-40-7P
                                                                 138679-12-6P
    136010-41-8P
                    136010-42-9P
                                   136010-43-0P
                                                  136086-11-8P
                    138679-14-8P
    138679-13-7P
                                   138679-15-9P
                                                  138679-16-0P
    RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation of, as intermediate for renin-inhibiting peptides)
ΙT
    130316-95-9P
                   138679-11-5P
    RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); SPN (Synthetic preparation); BIOL (Biological
     study); PREP (Preparation)
        (preparation of, as renin inhibitor)
ΙT
                                         67-56-1, Methanol, reactions
     63-91-2, Phenylalanine, reactions
     76-83-5, Triphenylmethyl chloride
                                         96-33-3 100-52-7, Benzaldehyde,
                                                115-08-2, Thioformamide
     reactions
                 109-01-3, N-Methylpiperazine
                                                       513-31-5,
               123-00-2, 4-(3-Aminopropyl)morpholine
     116-11-0
                         756-79-6, Dimethyl methylphosphonate 1068-90-2,
     2,3-Dibromopropene
     Diethyl acetamidomalonate 1826-67-1, Vinylmagnesium bromide
     3952-67-8, Methyl 3-methyl-2-oxobutyrate
                                                6066-82-6,
     N-Hydroxysuccinimide
                           6160-65-2
                                        20312-36-1, L-3-Phenyl lactic acid
     34619-03-9
                 91423-83-5, D-2-Bromohexanoic acid
                                                      98105-41-0 104882-10-2
     130316-85-7, 4-(Methoxymethoxy)piperidine
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, in preparation of renin-inhibiting peptides)
IT
     3952-67-8, Methyl 3-methyl-2-oxobutyrate
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, in preparation of renin-inhibiting peptides)
     3952-67-8 HCAPLUS
RN
     Butanoic acid, 3-methyl-2-oxo-, methyl ester (9CI) (CA INDEX NAME)
CN
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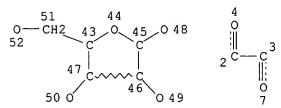
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=> d sta que 174 L71 STR



NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RSPEC 43 NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE

L73 7 SEA FILE=REGISTRY SSS FUL L71

L74 2 SEA FILE=REGISTRY ABB=ON PLU=ON L73 AND 1/NR

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=> d sta que 181
L75 STR

0—CH2 45 C 48 0 2 C C 3
47 C 46 0 7
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NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE

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L78	287	SEA FILE=REGISTRY ABB=ON PLU=ON L77 AND NR>=1
L79	120	SEA FILE=REGISTRY ABB=ON PLU=ON L77 NOT L78
T80	58	SEA FILE=REGISTRY ABB=ON PLU=ON L79 AND 3/ELC.SUB
L81	49	SEA FILE=REGISTRY ABB=ON PLU=ON L80 NOT ((D OR T)/ELS OR
•		11C# OR 13C# OR 14C# OR C11# OR C13# OR C14# OR 18O# OR 17O#
		OR LABELED OR ION)

=> d his 183-

(FILE 'REGISTRY' ENTERED AT 12:03:40 ON 23 FEB 2006) SAV L82 JONES679D/A

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FILE 'HCAPLUS' ENTERED AT 12:11:00 ON 23 FEB 2006
            627 S L82
L83
L84
              0 S L83 AND L37, L38
L85
              1 S L83 AND L51-L61
L86
             10 S L83 (L) THU/RL
L87
             13 S L83 (L) (DMA OR PAC OR PKT OR BAC)/RL
L88
             16 S L86, L87 AND (PY<=2001 OR PRY<=2001 OR AY<=2001)
L89
              0 S L83 AND L1-L5
L90
              O S L88 AND (?KIDNEY? OR ?RENAL? OR ?NEPHR?)
L91
              0 S L88 AND L74
L92
              1 S L74
     FILE 'USPATFULL, USPAT2' ENTERED AT 12:14:11 ON 23 FEB 2006
L93
              0 S L74
             32 S L81
L94
L95
             30 S L94 AND (PY<=2001 OR PRY<=2001 OR AY<=2001)
L96
             14 S L94 AND A61K/IPC
L97
             15 S L94 AND (424 OR 514)/NCLM, NCLS
L98
              2 S L97 NOT L96
              1 S L94 AND (?KIDNEY? OR ?RENAL? OR ?NEPHR?)
L99
L100
              O S L94 AND (KIDNEY? OR RENAL? OR NEPHR?)/CT
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L85 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1998:757416 HCAPLUS

DN 130:92293

ED Entered STN: 03 Dec 1998

TI Unconventional antigen retrieval for carbohydrate and protein antigens

AU Guhl, Bruno; Ziak, Martin; Roth, Jurgen

CS Division of Cell and Molecular Pathology, Department of Pathology, University of Zurich, Zurich, CH-8091, Switz.

SO Histochemistry and Cell Biology (1998), 110(6), 603-611 CODEN: HCBIFP; ISSN: 0948-6143

PB Springer-Verlag

DT Journal

LA English

CC 9-4 (Biochemical Methods) Section cross-reference(s): 13

AB Aldehyde fixation of tissues often adversely affects the reactivity of cellular proteins with antibodies. A most commonly used retrieval technique in immunohistochem. is high-temperature microwave heating of sections from formaldehyde-fixed and paraffin-embedded tissues. Here we report that pretreatment of paraffin and ultrathin cryosections with N-glycanase F to remove N-glycosidically linked oligosaccharides can result in a dramatic increase in specificity and intensity of immunogold labeling for sugar moieties present on O-glycosidically linked oligosaccharides. This is demonstrated in the immunolocalization of poly $\alpha 2,8$ KDN (KDN, 2-keto-3- deoxy-D-glycero-D-galacto-nononic acid) of megalin in rat kidney. The mechanism of this retrieval procedure is most probably based on the elimination of sterical hindrance by large N-glycosidically linked oligosaccharides. Furthermore, we demonstrate that exposure of ultrathin cryosections to acidic conditions (pH 5.5) at ambient temperature prior to immunogold labeling can result in an increased labeling intensity. effect was observed for megalin immunoreactive sites in proximal tubular epithelia of rat kidney. It is proposed that the mechanism of this

```
retrieval procedure is based on the depolymn. of methylen and polymethylen
     bridges introduced by formaldehyde in the acidic milieu.
     immunoelectron microscopy magalin KDN kidney staining N glycanase
ST
IT '
    Antigens
     RL: ANT (Analyte); BOC (Biological occurrence); BPR (Biological process);
     BSU (Biological study, unclassified); ANST (Analytical study); BIOL
     (Biological study); OCCU (Occurrence); PROC (Process)
        (Heymann's; unconventional antigen retrieval for carbohydrate and
        protein antigens)
TΤ
     Oligosaccharides, processes
     RL: REM (Removal or disposal); PROC (Process)
        (N-linked; unconventional antigen retrieval for carbohydrate and
        protein antigens)
TT
     Oligosaccharides, analysis
     RL: ANT (Analyte); BOC (Biological occurrence); BPR (Biological process);
     BSU (Biological study, unclassified); ANST (Analytical study); BIOL
     (Biological study); OCCU (Occurrence); PROC (Process)
        (O-linked; unconventional antigen retrieval for carbohydrate and
        protein antigens)
ΙT
     Immunoassay
        (immunoelectron microscopy; unconventional antigen retrieval for
        carbohydrate and protein antigens)
IT
        (immunogold-silver staining; unconventional antigen retrieval for
        carbohydrate and protein antigens)
TΤ
     Immunoassay
        (immunohistochem.; unconventional antigen retrieval for carbohydrate
        and protein antigens)
IT
     Kidney
     Rat
     Sample preparation
        (unconventional antigen retrieval for carbohydrate and protein
        antigens)
TT
     83534-39-8, Amidase, peptide-N4-(N-acetyl-\beta-glucosaminyl)asparagine
     RL: BPR (Biological process); BSU (Biological study, unclassified); PEP
     (Physical, engineering or chemical process); BIOL (Biological study); PROC
     (Process)
        (F; unconventional antigen retrieval for carbohydrate and protein
        antigens)
     22594-61-2, D-glycero-D-galacto-2-Nonulosonic acid, 3-deoxy-
IT
     RL: ANT (Analyte); BOC (Biological occurrence); BPR (Biological process);
     BSU (Biological study, unclassified); ANST (Analytical study); BIOL
     (Biological study); OCCU (Occurrence); PROC (Process)
        (unconventional antigen retrieval for carbohydrate and protein
        antigens)
RE.CNT
              THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD
        37
RE
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     22594-61-2, D-glycero-D-galacto-2-Nonulosonic acid, 3-deoxy-
     RL: ANT (Analyte); BOC (Biological occurrence); BPR (Biological process);
     BSU (Biological study, unclassified); ANST (Analytical study); BIOL
     (Biological study); OCCU (Occurrence); PROC (Process)
        (unconventional antigen retrieval for carbohydrate and protein
        antigens)
     22594-61-2 HCAPLUS
RN
CN
     D-glycero-D-galacto-2-Nonulosonic acid, 3-deoxy- (9CI) (CA INDEX NAME)
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Absolute stereochemistry.

=> d his

(FILE 'HOME' ENTERED AT 10:53:41 ON 23 FEB 2006) SET COST OFF

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E CRITIC T/PA,CS
                E CRITICAL T/PA,CS '
L5
              7 S E5-E8
                E CARBOXYLIC ACID/CT
                E CARBOXYLIC ACIDS/CT
             11 S E3 (L) 2 KETO
L6
             43 S (CARBOXYLIC(L)ACID#)/CW (L) 2(L)KETO
L7
             43 S CARBOXYLIC ACID?/CT (L) 2(L)KETO
^{\text{L8}}
             43 S L6-L8
L9
L10
             2 S 2 KETOALKANOIC ACID
L11
             0 S 2 KETO ALKANOIC ACID
             0 S 2 KETO ALKANOATE
L12
L13
             0 S 2 KETOALKANOATE
L14
             44 S L9, L10
L15
              2 S L1-L5 AND L14
                SEL RN
     FILE 'REGISTRY' ENTERED AT 10:59:26 ON 23 FEB 2006
L16
             24 S E1-E24
L17
              1 S L16 AND C3H5NO2
L18
             19 S L16 AND 3/ELC.SUB
L19
             1 S L18 AND C3H6O3
L20
             18 S L18 NOT L19
L21
             19 S L17, L20
L22
              5 S L16 NOT L21
L23
                STR
L24
             0 S L23 CSS
L25
                SCR 1993 OR 2009 OR 2016 OR 2021 OR 2026 OR 1838 OR 2043 OR 203
L26
             24 S L23 NOT L25 CSS SAM
L27
                STR L23
L28
             25 S L27 NOT L25 CSS SAM
L29
            390 S L27 NOT L25 CSS FUL
                SAV L29 JONES679/A
L30
                STR L27
L31
             25 S L30 NOT L25 CSS SAM
L32
            397 S L30 NOT L25 CSS FUL
                SAV L32 JONES679A/A
L33
              6 S L21 NOT L32
L34
             11 S L32 AND NC>=2
L35
            386 S L32 NOT L34
     FILE 'HCAPLUS' ENTERED AT 11:24:55 ON 23 FEB 2006
           3111 S L35
L36
                E ACUTE RENAL FAILURE/CT
                E E3+ALL
           1406 S E2
L37
L38
           5876 S ACUTE(L) (KIDNEY OR RENAL OR NEPHR?) (L) FAIL?
L39
              1 S L14 AND L37, L38
L40
              6 S L36 AND L37, L38
L41
             6 S L39, L40
L42
             25 S L1-L5 AND L36
L43
             1 S L42 AND L41
L44
             6 S L41, L43
            396 S L33/D
L45
L46
             2 S L45 AND L37, L38
L47
              5 S L1-L5 AND L45
L48
              7 S 144,L46
L49
              4 S L47 NOT L48
L50
             11 S L48, L49
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E KIDNEY/CT

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L51
         16349 S E39-E41
L52
        181892 S E3-E139
L53
         28046 S E190
L54
          36799 S E191-E216
L55
         15163 S E217-E264
L56
         17394 S E265-E293
L57
          23459 S E294
L58
          44627 S E295-E307,E310-E312
           2909 S E313-E316
L59
                E E3+ALL
         182004 S E5+OLD, NT
L60
                E E11+ALL
L61
          69413 S E10+OLD, NT
L62
             1 S L14 AND L51-L61
             26 S L36 AND L51-L61
L63
L64
             31 S L50, L62, L63
             7 S L45 AND L51-L61
L65
             36 S L64, L65
L66
             20 S L66 AND (PY<=2001 OR PRY<=2001 OR AY<=2001)
L67
L68
             16 S L66 NOT L67
L69
              7 S L67 AND (ACUTE OR CHRONIC)
                SEL AN 1 6 7
L70
              3 S L69 AND E1-E6
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     FILE 'HCAPLUS' ENTERED AT 11:41:25 ON 23 FEB 2006
     FILE 'REGISTRY' ENTERED AT 12:03:40 ON 23 FEB 2006
L71
               STR L30
L72
              2 S L71
L73
              7 S L72 FUL
                SAV L73 JONES679B/A
L74
             2 S L73 AND 1/NR
L75
               STR L71
L76
            10 S L75
L77
            407 S L75 FUL
                SAV L77 JONES679C/A
            287 S L77 AND NR>=1
L78
L79
            120 S L77 NOT L78
L80
            58 S L79 AND 3/ELC.SUB
L81
             49 S L80 NOT ((D OR T)/ELS OR 11C# OR 13C# OR 14C# OR C11# OR C13#
L82
             51 S L74, L81
                SAV L82 JONES679D/A
     FILE 'HCAPLUS' ENTERED AT 12:11:00 ON 23 FEB 2006
L83
            627 S L82
L84
             0 S L83 AND L37, L38
L85
              1 S L83 AND L51-L61
L86
             10 S L83 (L) THU/RL
L87
             13 S L83 (L) (DMA OR PAC OR PKT OR BAC)/RL
L88
             16 S L86, L87 AND (PY<=2001 OR PRY<=2001 OR AY<=2001)
L89
             0 S L83 AND L1-L5
L90
              O S L88 AND (?KIDNEY? OR ?RENAL? OR ?NEPHR?)
L91
              0 S L88 AND L74
L92
              1 S L74
     FILE 'USPATFULL, USPAT2' ENTERED AT 12:14:11 ON 23 FEB 2006
             0 S L74
L93
L94
             32 S L81
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L95	30	S	L94	AND	(PY<=2001 OR PRY<=2001 OR AY<=2001)
L96	14	S	L94	AND	A61K/IPC .
L97	15	S	L94	AND	(424 OR 514)/NCLM, NCLS
L98	2	S	L97	NOT	L96
L99	1	S	L94	AND	(?KIDNEY? OR ?RENAL? OR ?NEPHR?)
L100	0	S	L94	AND	(KIDNEY? OR RENAL? OR NEPHR?)/CT

FILE 'REGISTRY' ENTERED AT 12:16:25 ON 23 FEB 2006

FILE 'HCAPLUS' ENTERED AT 12:17:10 ON 23 FEB 2006

FILE 'HCAPLUS' ENTERED AT 12:17:24 ON 23 FEB 2006

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